

Progress Report UNECE WP 6

Sectoral Initiative for Earth-Moving Machines (EMM)

**Dan Roley, PhD
UNECE WP 6
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Outline of Presentation

- **Introduction – EMM Industry**
- **History of the Sectoral Initiative**
- **Status Summary**
- **Future Plans**



Earth Moving Machines

Off-Road Machines Used in Earth Moving, Construction and Mining for Excavating, Loading, Transporting, Spreading and Compacting Earth, Rock and Other Materials.



EMM Sectoral Initiative History

- 2004: Completed EMM Sectorial Project to Promote:
 - National Adoption of ISO/TC 127 Safety Standards
 - Using the Technical Requirements in the ISO/TC 127 Standards for the Technical Requirements for National Regulations
 - Self Declaration of Conformity for Certification
- 2008: Updated for Developing Countries
 - Accept Need for Third Party Conformity Assessment
 - Allow Single Testing and Single Global Certification
 - Long Term Goal Still Self Declaration of Conformity
- 2009: Started Conformity Assessment Certificate
- 2011: Expanded to Cover Risk Management and Support Customer Goal for Zero Injury/Harm
- 2012/2014: Promote Sustainability/Balance
- 2015: Addressed Replacement Parts Challenge
- 2016: Developed the ISO 19948 Standard to Support the EMM Sectorial Project Process

Status Summary

- **Continuing to Promote the Sectorial Initiative for EMM**
 - **ISO Standards Are Generally Accepted for National Standards and for Technical Requirements for Regulations**
 - **Self Declaration of Conformity Generally Accepted**
 - **Third Party Testing and Certification Provisions**
 - **Promoting Acceptance of Conformity Assessment Testing by Manufacturers if Properly Done**
 - **Promoting Single Third-Party Certification Globally**
- **Gender Responsive and Sustainable Development**
 - **Measured Ergonomics Data in 2002. Added Data to ISO Standards to Accommodate Female Operators**
 - **Prepared General ISO Sustainability Standard in 2012. Added ISO Standards for Remanufacturing and Used Machines to Support Sustainability**

Future Plans for EMM Project

- **Develop ISO/TC 127 High Technology Standards**
 - **Published the ISO 17757 Autonomous Machine System Safety Standard**
 - **Preparing ISO Standards for Collision Avoidance and Safety of Control Systems**
 - **Preparing ISO Standards on Interoperability**
- **Continue to Provide Training and Assistance For Using the ENECE WP 6 EMM Model Regulation**
- **Continue to Develop and Update ISO Standards to Support Customer Goals of Zero Injury/Zero Harm**